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C & R-PREP.



for the
Milwaukee, Northeastern
and Madison Marketing Areas
C. T. McCleery - Market Administrator
SEPTEMBER 1964

SOUND AS AN INSECTICIDE

Several years ago someone wrote to USDA's Office of Information wanting to know "Is there a musical record on the market that attracts mosquitoes and kills them?" At that time, this query was thought to be unusual and the reply was that no such record was known.

Today, however, USDA scientists are investigating the use of amplified sound as a non-chemical means of controlling insects that attack grain and other farm products in storage.

Robert Kirkpatrick, an entomologist at the AMS Stored-Product Insects Laboratory at Savannah, Ga., noticed that amplified sound waves seemed to keep flies and mosquitoes away from his backyard patio. He decided to test the effect of sound on common pests of stored (to page 8)

NUMBER OF PRODUCERS
ON THE MILWAUKEE MARKET

The number of producers supplying the Milwaukee market steadily declined from 1953 through 1960. The average number of producers on the market in 1953 was 2,925, compared with 1,924 in 1960. This represented a decrease of 34.22% for the 8 year period. The sharpest decline was from 1956 to 1957 when the number of producers decreased by 11.6%. In 1961 the number of producers began to increase and by 1963 had risen to 16.94% over the number in 1960.

The effect of a change in the number of producers cannot be understood or meaningful unless the conditions under which the change occurred are fully known. For example in June of 1962 the marketing area was extended. (to page 8)

— DATA IN BRIEF - FOR THE MAN IN A HURRY —

<u>AUGUST 1964</u>	<u>Milwaukee Order No. 39</u>		<u>Northeastern Wis. Order No. 45</u>		<u>Madison Order No. 51</u>	
Class I Price & Differential	\$3.96	7.0¢	\$3.82	7.2¢	\$3.96	7.0¢
Class II Price & Differential	\$3.15	6.8¢	\$3.15	6.8¢	\$3.15	6.8¢
Producer Price & Differential	\$3.82	7.0¢	\$3.62	7.1¢	\$3.78	6.9¢
Pounds of Producer Milk	68,320,884		34,642,783		18,977,819	
Percentage in Class I	81.5%		69.5%		76.4%	
<u>SEPTEMBER 1964</u>						
Class I Price & Differential	\$3.99	7.1¢	\$3.85	7.4¢	\$3.99	7.1¢

PRODUCER PRICES FOR AUGUST 1964

Milwaukee Wisconsin Marketing Area
Federal Order No. 39

Minimum prices per hundredweight to be paid on or before the 15th of each month to producers for 3.5% milk, f.o.b. plant. These prices are subject to a butterfat differential per point over and under 3.5% and to a deduction of 2 cents per hundredweight for marketing service for nonmembers. In the case of members of approved cooperatives, these prices are subject to the deductions authorized by the associations.

The prices listed below do not include any premium payments which may be paid by handlers and which may bring actual payments in excess of minimum requirements.

Name of Handler	Minimum Pay Price	B.F. Dif'l
Blochowiak Dairy	\$3.73	6.9¢
The Borden Co.	3.80	7.0
Cedarburg Dairy, Inc.	3.82	7.0
Christiansen's Dairy	3.95	7.0
Fairmont Foods Co.	3.90	7.0
Gehl Guernsey Dairy	3.65	6.9
Golden Guernsey Dairy	3.77	6.9
Harmony Dairy Products	3.64	6.9
Hawthorn-Melody Farms	3.89	7.0
Healthway Dairy, Inc.	3.83	7.0
Home Dairy	3.93	7.0
Keystone Farms	3.86	7.0
Krueger Dairy	3.93	7.0
McFarlands' Farm Dairy	3.69	6.9
Milk Producers Coop.	3.88	7.0
Mullen's Dairy	3.75	7.0
Progressive Dairy Prod.	3.94	7.0
Pure Milk Association	3.94	7.0
Roets Home Dairy	3.88	7.0
Schroeder Dairy	3.81	7.0
Sealtest Foods	3.74	7.0
Vande Kolk Dairy	3.89	7.0
Warren Dairy	3.96	7.0
Wayside Dairy	3.94	7.0
West Side Dairy, Inc.	3.91	7.0

WEIGHTED AVERAGE 7.0¢

Weighted Average of Producer
Prices for Information Purposes: \$3.82

UNIFORM PRICES AND

COMPUTATION OF

AUGUST 1964

Producer Milk in Class I

Producer Milk in Class II

Total Milk and Value Before Adjustments

Adjustments for Value of:

Overage Deducted from Classes I & II

Beginning Inventory Reclassification

Other Source Milk Deducted from Class I

Butterfat More or Less than 3.5 Percent

Plant Location Differentials

Half of Producer-Equalization Fund

Aggregate Value and Average Price

Reserve to Producer-Equalization Fund

Uniform Price to Producers for 3.5% Milk

* Subject to location differentials. These minimum pay

MANUFACTURING PRICES AND

Year and Month	92Score Butter Chicago	Cheddar Cheese Wis.	Spray Dry Skim	Basic Formula Price	Handler B'fat Dif'l C.I* C.II
1963	cents	cents	cents	dol.	cents
Aug.	57.97	34.25	14.18	3.09	7.0 6.7
Sep.	59.70	34.25	14.24	3.10	7.0 6.9
Oct.	58.48	34.50	14.25	3.12	7.2 6.7
Nov.	58.09	35.00	14.24	3.15	7.0 6.7
Dec.	58.01	35.12	14.24	3.16	7.0 6.7
1964					
Jan.	57.97	35.25	14.32	3.16	7.0 6.7
Feb.	57.97	35.12	14.26	3.17	7.0 6.7
Mar.	57.97	34.19	14.25	3.16	7.0 6.7
Apr.	57.97	33.81	14.19	3.15	7.0 6.7
May	57.97	33.70	14.22	3.12	7.0 6.7
June	57.97	33.75	14.24	3.12	7.0 6.7
July	58.00	33.75	14.23	3.11	7.0 6.7
Aug.	59.51	34.38	14.30	3.12	7.0 6.8
Sep.				3.15	7.1

Exception, Order 45 is 7.2¢ thru Sep. '63; Oct. '63 7.5¢; Nov. '63 thru Jan. '64 7.3¢; Feb. thru Aug. '64 7.2¢; Sep. '64 7.4¢.

OTHER PRICE DATA

OF UNIFORM PRICES

Northeastern Wisconsin Marketing Area Federal Order No. 45				Madison Wisconsin Marketing Area Federal Order No. 51			
Pounds of Milk	Average B'fat Test	Price at Test	VALUE	Pounds of Milk	Average B'fat Test	Price at Test	VALUE
24, 077, 448	3.554571	\$3.860527	\$929, 516.49	14, 493, 914	3.414399	\$3.861017	\$559, 612.49
<u>10, 565, 335</u>	<u>3.649160</u>	<u>3.251429</u>	<u>343, 524.35</u>	<u>4, 483, 905</u>	<u>3.819171</u>	<u>3.367036</u>	<u>150, 974.69</u>
34, 642, 783			\$1, 273, 040.84	18, 977, 819			\$710, 537.18
			617.00				1, 360.05
			670.04				162.36
			-				7, 254.29
			-20, 518.29				-2, 267.91
			-318.92				7, 402.77
			<u>17, 091.61</u>				<u>8, 516.29</u>
			\$3.667668			\$3.828182	\$733, 015.03
			<u>.047668</u>			<u>.048182</u>	<u>-9, 225.89</u>
			<u>\$3.62*</u>			<u>\$3.78*</u>	\$723, 789.14

prices do not include any premium payments which may be paid by handlers.

FEDERAL ORDER PRICES FOR WISCONSIN AREAS - NO. 39, NO. 45, NO. 51

Class I Price Differentials			Supply-Demand Adjustments			Class I Prices			Uniform Prices to Producers** and Producer Butterfat Differentials					
No.39	No.45	No.51	No.39	No.45	No.51	No.39	No.45	No.51	Milwaukee	Northeast	Madison			
cents			cents			dollars			dol. cents		dol. cents		dol. cents	
108	94	108	-24	-24	-24	3.93	3.79	3.93	3.84	7.0	3.59	7.0	3.75	6.9
108	94	108	-24	-24	-24	3.94	3.80	3.94	3.84	7.0	3.56	7.1	3.76	7.0
108	94	108	-24	-20	-24	3.96	3.86	3.96	3.88	7.1	3.61	7.2	3.82	7.1
108	94	108	-24	-24	-24	3.99	3.85	3.99	3.89	7.0	3.56	7.0	3.84	6.9
88	74	88	-24	-24	-24	3.80	3.66	3.80	3.69	6.9	3.42	7.0	3.62	6.9
88	74	88	-24	-24	-24	3.80	3.66	3.80	3.70	6.9	3.44	7.0	3.62	6.9
88	74	88	-24	-24	-24	3.81	3.67	3.81	3.71	6.9	3.45	7.0	3.65	6.9
68	54	68	-24	-24	-24	3.60	3.46	3.60	3.50	6.9	3.31	7.0	3.47	6.9
68	54	68	-24	-24	-24	3.59	3.45	3.59	3.50	6.9	3.30	7.0	3.44	6.9
68	54	68	-24	-24	-24	3.56	3.42	3.56	3.46	6.9	3.27	7.0	3.39	6.9
68	54	68	-24	-24	-24	3.56	3.42	3.56	3.47	6.9	3.28	7.0	3.42	6.9
88	74	88	-24	-24	-24	3.75	3.61	3.75	3.64	6.9	3.46	7.0	3.61	6.9
108	94	108	-24	-24	-24	3.96	3.82	3.96	3.82	7.0	3.62	7.1	3.78	6.9
108	94	108	-24	-24	-24	3.99	3.85	3.99						

** Weighted averages are shown for Milwaukee and all markets when base and excess prices are in effect.

UTILIZATION AND CLASS

FEDERAL ORDER

— MILWAUKEE MARKET NO. 39 —

I T E M	August 1964		July 1964		August 1963	
	Thousand Pounds	% B'fat	Thousand Pounds	% B'fat	Thousand Pounds	% B'fat
CLASS I MILK						
Packaged Products:						
Fluid Milk	43,626	3.5	42,663	3.5	45,174	3.5
Flavored Milk	1,282	3.5	1,274	3.5	1,321	3.5
2% Skim Milk, Solids Added	3,794	2.1	3,725	2.1	3,294	2.1
" " " , Plain	1,456	2.2	1,405	2.1	1,228	2.2
Skim Milk, Solids Added	1,904	.4	1,903	.4	1,848	.4
Plain Skim	922	.7	1,001	.7	977	.7
Buttermilk	659	1.0	821	.9	638	1.0
Flavored Milk Drink	220	.4	205	.4	212	.8
Half & Half	1,076	12.4	1,063	12.4	1,063	12.4
Light Cream	46	19.0	46	19.0	52	18.9
Whipping Cream	166	32.6	172	32.6	189	33.2
Cultured Cream	309	18.9	321	19.1	269	18.6
Subtotal	55,460	3.5	54,599	3.5	56,265	3.5
Bulk Sales to Nonhandlers	338	3.5	283	3.6	206	3.6
Unaccounted for Milk	202	7.0	216	6.0	261	3.2
Total Utilized in Class I	56,000	3.5	55,098	3.5	56,732	3.5
Nonpool Receipts*	-332	4.5	-135	4.9	-719	4.3
CLASS I - PRODUCER MILK	55,668	3.5	54,963	3.5	56,013	3.5
CLASS II MILK						
Bakeries et al.	121	12.1	114	11.6	93	11.2
Cottage Cheese	4,593	1.0	5,062	.9	4,263	.9
Cheese	3,252	3.5	3,041	3.3	1,245	3.3
Butter	523	9.2	938	6.2	443	10.0
Evap., Cond., & Pwd.	1,864	4.4	1,926	4.5	1,979	2.8
Ice Cream & Mixes	2,678	10.8	3,140	10.9	2,555	10.3
Livestock Feed	83		87		83	
Dumped Products	-		14		5	
Skim, Equiv. Fort. Prod.	1,243		1,241		1,154	
Ending Inventory	5,075	3.9	4,516	4.0	3,232	4.0
Shrinkage	1,222	1.9	909	3.0	902	3.0
Total Utilized in Class II	20,654	4.0	20,988	4.1	15,954	3.8
Nonpool Receipts*	-8,001	3.9	-8,711	4.4	-8,385	4.0
CLASS II - PRODUCER MILK	12,653	4.0	12,277	3.8	7,569	3.7
TOTAL PRODUCER RECEIPTS	68,321	3.6	67,240	3.6	63,582	3.5

NOTE: Bakeries et al. includes products for candy manufacturing, aerated cream, sour cream products not labeled Grade A, and small amounts of eggnog during off-season months.

CLASSIFICATION OF MILK

PERS 39, 45, 51

— NORTHEASTERN MARKET NO. 45 —						— MADISON MARKET NO. 51 —					
August 1964		July 1964		August 1963		August 1964		July 1964		August 1963	
Thousand	%	Thousand	%	Thousand	%	Thousand	%	Thousand	%	Thousand	%
Pounds	B'fat	Pounds	B'fat	Pounds	B'fat	Pounds	B'fat	Pounds	B'fat	Pounds	B'fat
20,056	3.4	19,595	3.4	19,644	3.5	10,169	3.4	10,457	3.4	10,380	3.4
822	3.6	799	3.5	787	3.5	441	3.8	468	3.8	446	3.9
1,048	2.0	1,041	2.0	488	2.1	2,124	2.1	2,123	2.1	2,002	2.1
212	1.9	208	1.9	298	1.8	-	-	-	-	-	-
688	.3	682	.3	620	.5	658	.7	677	.8	633	.9
549	.5	601	.4	657	.5	55	.3	59	.3	61	.3
345	.8	342	.7	271	.7	209	1.6	243	1.6	203	1.6
80	.9	85	.9	69	.8	33	.4	3	.4	8	2.5
470	12.9	470	12.8	481	12.9	363	12.1	378	12.2	363	12.2
6	22.0	5	22.6	10	22.2	4	23.5	5	22.2	5	23.2
82	35.2	95	35.1	91	34.9	44	34.4	51	34.0	49	34.9
76	18.9	102	18.8	83	19.2	53	19.0	53	19.4	50	22.5
24,434	3.5	24,025	3.5	23,499	3.6	14,153	3.4	14,517	3.4	14,200	3.5
258	4.1	241	3.6	423	3.8	1,188	3.9	710	4.0	201	3.6
147	7.0	129	9.6	257	8.1	56	5.1	75	3.3	105	3.0
24,839	3.5	24,395	3.6	24,179	3.6	15,397	3.5	15,302	3.5	14,506	3.5
-761	3.1	-198	3.5	-339	3.9	-903	4.3	-750	4.3	-946	3.4
24,078	3.6	24,197	3.6	23,840	3.6	14,494	3.4	14,552	3.4	13,560	3.5
-	-	-	-	-	-	5	29.3	5	28.2	2	38.6
2,280	1.0	2,609	1.0	1,988	1.0	1,195	1.4	1,392	.9	1,097	.9
4,672	3.4	5,844	3.4	9,147	3.4	850	2.7	1,079	2.8	1,050	2.7
248	34.4	279	34.3	871	37.2	182	34.8	201	34.0	204	35.0
1,958	.2	2,167	.2	7,635	.2	1,211	.2	1,438	.2	1,479	.2
2,073	7.1	2,305	7.2	2,127	7.0	1,401	7.4	1,624	7.7	1,371	7.5
31		85		102		89		97		75	
42		81		108		10		-		-	
528		586		433		421		430		441	
2,566	4.1	2,278	3.9	2,148	4.6	1,481	4.2	1,165	4.2	971	4.3
384	5.8	518	4.6	594	4.0	365	1.6	348	1.9	312	2.3
14,782	3.7	16,752	3.6	25,153	3.7	7,210	3.8	7,779	3.8	7,002	3.8
-4,217	3.8	-4,458	3.7	-13,971	3.8	-2,726	3.8	-3,185	3.8	-2,888	4.1
10,565	3.6	12,294	3.6	11,182	3.5	4,484	3.8	4,594	3.7	4,114	3.6
34,643	3.6	36,491	3.6	35,022	3.6	18,978	3.5	19,146	3.5	17,674	3.5

* Includes receipts of other source milk, beginning inventory, and overage, all as allocated to classes, and adjustment for Class II interorder transfers shown as Class I.

CLASS I AND RECEIPTS BY MONTHS

POUNDS OF PRODUCER MILK IN CLASS I, ITS PERCENTAGE TO TOTAL PRODUCER MILK WITH TOTALS FOR PRODUCER MILK AND FOR OTHER SOURCE MILK BY WISCONSIN MARKETS

Year and Month	MILWAUKEE, No. 39				NORTHEASTERN, No. 45				MADISON, No. 51			
	CLASS I		From Pro-ducers	Other Source Milk	CLASS I		From Pro-ducers	Other Source Milk	CLASS I		From Pro-ducers	Other Source Milk
	Mil. #	%	Mil. #		Mil. #	%	Mil. #		Mil. #	%	Mil. #	
1963												
Aug.	56.0	88.1	63.6	4.0	23.8	68.1	35.0	12.2	13.6	76.7	17.7	2.5
Sep.	55.4	87.4	63.4	3.8	23.0	64.8	35.5	10.0	14.0	76.7	18.2	1.7
Oct.	61.5	89.6	68.6	3.8	24.8	65.9	37.7	2.5	16.8	82.0	20.5	1.9
Nov.	58.7	87.7	66.9	3.0	23.5	58.5	40.2	4.3	16.0	80.7	19.8	1.6
Dec.	58.2	82.0	71.0	3.1	23.1	53.2	43.3	4.4	15.0	71.1	21.1	1.8
1964												
Jan.	61.2	83.5	73.4	3.4	24.5	55.0	44.7	5.0	16.0	71.3	22.4	1.8
Feb.	58.0	82.3	70.6	3.4	23.2	57.4	40.4	1.2	15.7	72.5	21.6	1.7
Mar.	59.6	78.8	75.7	3.5	23.7	54.2	43.7	1.3	16.3	70.9	23.1	2.0
Apr.	59.1	81.3	72.7	3.5	23.6	55.6	42.5	1.5	15.1	68.3	22.1	1.9
May	58.0	77.5	74.8	3.6	23.2	52.2	44.4	1.5	13.9	60.9	22.9	2.2
June	54.3	77.5	70.1	3.6	21.7	52.1	41.5	1.7	13.9	67.2	20.8	2.3
July	55.0	81.7	67.2	3.9	24.2	66.3	36.4	2.3	14.6	76.0	19.1	2.7
Aug.	55.7	81.5	68.3	3.8	24.1	69.5	34.6	2.7	14.5	76.4	19.0	2.5

FARM NUMBERS AND DELIVERIES

NUMBER OF FARMS AND AVERAGE DAILY DELIVERIES PER FARM BY WISCONSIN MARKETS

Year and Month	MILWAUKEE				NORTHEASTERN				MADISON			
	Number of Farms		Avg. Daily Per Farm		Number of Farms		Avg. Daily Per Farm		Number of Farms		Avg. Daily Per Farm	
	'63	'64	'63	'64	'63	'64	'63	'64	'63	'64	'63	'64
Jan.	2270	2247	990	1056	1374	1421	940	1014	615	642	1028	1125
Feb.	2261	2235	1006	1092	1371	1341	952	1038	651	641	1023	1163
Mar.	2257	2224	1010	1041	1360	1335	959	1055	650	640	1025	1163
Apr.	2243	2211	1019	1100	1355	1334	971	1063	645	635	1047	1158
May	2214	2185	1033	1106	1355	1333	979	1075	639	633	1086	1167
June	2209	2173	1011	1078	1415	1319	976	1050	621	628	1053	1102
July	2222	2177	927	993	1417	1323	814	890	633	635	924	973
Aug.	2241	2232	927	1003	1417	1326	797	843	639	639	892	958
Sep.	2263		946		1438		822		650		933	
Oct.	2276		984		1361		894		646		1022	
Nov.	2259		993		1447		927		643		1028	
Dec.	2256		1021		1447		966		643		1056	
Avg.	2248		989		1396		916		640		1010	

COMPARATIVE STATISTICS

SELECTED DATA COMPARISONS, WISCONSIN MARKETS

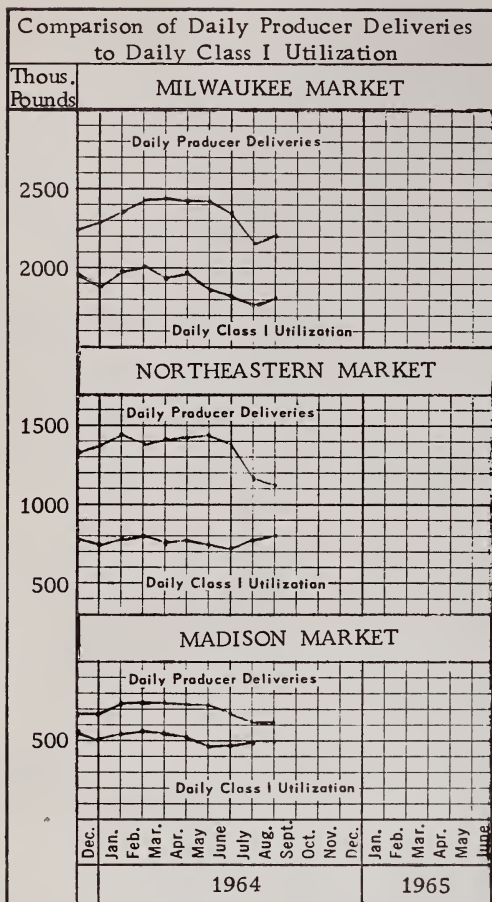
	Order No. 39			Order No. 45			Order No. 51		
	August		Com- parison	August		Com- parison	August		Com- parison
	'64	'63		'64	'63		'64	'63	
Average Daily:									
Producer Milk, thous. lbs.	2204	2051	+7.5%	1118	1130	-1.1%	612	570	+7.4%
Other Receipts " "	123	129		87	392		117	124	
Gross Class I " "	1806	1830	-1.3%	801	780	+2.7%	494	468	+5.6%
Gross Class II " "	666	515	+29.3%	477	811	-41.2%	235	226	+4.0%
Deliveries per Farm, lbs.	1003	927	+8.2%	843	797	+5.8%	958	892	+7.4%
Number of Farms	2232	2241	-9	1326	1417	-91	639	639	-
Avg. Test of Prod. Milk, %	3.60	3.55		3.58	3.58		3.51	3.52	
Number of Handlers:									
Pool Plants	25	26	-1	64	66	-2	19	20	-1
Other Handlers	5	4	+1	6	8	-2	9	10	-1
Producer Milk in Class I, %	81.5	88.1		69.5	68.1		76.4	76.7	
Shrinkage to Total Receipts:									
Product Pounds, %	1.78	1.54		1.42	1.80		1.64	1.80	
Butterfat Pounds, %	1.28	1.29		2.44	2.61		.94	1.22	

NEARBY FEDERAL ORDER DATA

PRODUCER MILK, TOTAL AND CLASS I, AND RELATED PRICES - AUGUST 1964

Market	Producer Milk	Class I Milk	Class I Price 3.5% Milk	Producer Price 3.5% Milk
	thous. lbs.	thous. lbs.	\$ per cwt.	\$ per cwt.
Chicago, No. 30	432,395	187,442	3.98	3.64
Duluth-Superior, No. 69	11,564	7,473	4.27	3.81
Madison, No. 51	18,978	14,494	3.96	3.78
Mich. Upper Peninsula, No. 44	10,438	7,970	4.03	3.92
Milwaukee, No. 39	68,321	55,668	3.96	3.82
Minneapolis-St. Paul, No. 68	82,496	56,252	4.045	3.80
Northeastern Wisconsin, No. 45	34,643	24,078	3.82	3.62
Quad Cities-Dubuque, No. 63	18,247	13,011	4.18	3.88
Rock River Valley, No. 38	9,319	7,530	4.00	3.85
Southern Michigan, No. 40	322,173	173,572	4.33	3.79

NOTE: The producer price shown for Michigan Upper Peninsula and Milwaukee is, in each case, the weighted average of minimum pay prices for pool plants, including zone or location differentials. Announced prices for basic zones are quoted in other instances. During base pay periods weighted averages are shown for base and excess prices.



WISCONSIN FEDERAL MILK ORDER BULLETIN

Published Monthly By
Federal Milk Market Administrator
4920 West Burleigh Street
Milwaukee 10, Wisconsin
for the
Milwaukee, Northeastern
and Madison Marketing Areas

This bulletin is primarily to provide producers who are not members of cooperative associations with market information in accordance with § 1039.74 of the Milwaukee Wisconsin marketing order, § 1045.75 of the Northeastern Wisconsin marketing order, and § 1051.77 of the Madison Wisconsin marketing order.

Insecticide, Continued from page 1

foods.

Indian-meal moths, a common pest of stored foods, were placed in a small chamber in which two radio loudspeakers faced each other. The speakers provided a continuous low hum, barely audible to the human ear.

The moths were exposed to the sound waves for 4 days while they were laying eggs. Only about one-fourth as many moths developed from these eggs as developed from eggs laid by moths not exposed to sound. Those that did develop took longer to become adults, and of them nearly half died the first day.

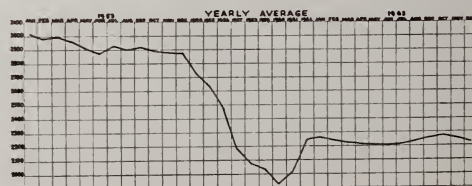
AMS scientists now feel that the use of sound holds considerable promise as a non-chemical method of controlling insects that attack stored farm products. We still don't know of a record that will attract and kill mosquitoes, but we may have made a start.

Milwaukee Market, Continued from page 1

Naturally there was an increase in number of producers. These are conditions external to a producer. However there are conditions internal to a producer which can have a distinct effect upon the number of producers on a market. These factors would include changes in health requirements, kinds of technology required, and other cost conditions.

Certain procurement practices may permit the transferring or diverting of producers during certain seasons of the year. In such a case these producers in so called stand-by status will affect the number of producers on a market without representing an entry or exit situation of the industry.

MILWAUKEE MARKETING AREA NUMBER OF PRODUCERS



BULK PRODUCERS

CAN PRODUCERS